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APPLICATION NO.	FILING DA	TE FIRST NAMED INVENTOR	ATTORNEY DOCK	ET NO. CONFIRMATION NO.	
10/000,019	12/04/20	OI Kenji Ishizeki	216576US0	7976	
22850	7590 03	5/04/2004		EXAMINER	
OBLON, S	PIVAK, MCCL	MC	MCCLENDON, SANZA L		
1940 DUKE ALEXAND	STREET RIA, VA 22314		ART UNIT	PAPER NUMBER	

1711

DATE MAILED: 03/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)	i			
		10/000,019	ISHIZEKI ET AL.	9			
		Examiner	Art Unit				
	4	Sanza L McClendon	1711				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on <u>04 D</u>	ecember 2001.					
2a)□	•						
3)□							
Disposition of Claims							
4)⊠ 5)□ 6)⊠ 7)⊠	Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-3 and 7-9 is/are rejected. Claim(s) 4 and 5 is/are objected to. Claim(s) are subject to restriction and/o						
Applicati	ion Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority (under 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Bureasee the attached detailed Office action for a list	ts have been received. ts have been received in Appli prity documents have been rec nu (PCT Rule 17.2(a)).	cation No eived in this National	Stage			
Attachmer	at(s)						
1) Notice 2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		0-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1 and 6-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claims 1 and 6, the phrase "capable" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase does or does not introduce a photocurable functional group in the copolymer (B) the claimed invention.
- 4. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear in claim 7 how the cured coating film is formed by the curable composition. There seems to be a step missing, such as curing by radiation, thermal energy, and/or both.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the

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United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1-3, and 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Stansbury et al (6,184,339).

Stansbury et al teaches high strength polymeric networks derived from (meth) acrylate resins with organofluorine content, which are useful for dental resins and composites, adhesives, protective coatings, optical devices, coatings, and electronic devices—see column 5, lines 20-23 and the abstract. Said networks are prepared by radiation polymerization of a composition comprising a (meth) acrylate oligomer/pre-polymer having an organofluorine a reactive diluent for viscosity control (such as, triethylene dimethacrylate), initiator for curing by UV radiation (such as camphorquinone), and/or fillers—see column 15, lines 66-67 to column 16 lines53-55. Wherein, said dimethacrylate diluent anticipated claim 3. Said (meth) acrylate oligomer/prepolymer having an organofluorine content can be prepared, for instance, by direct oligomerization of a fluorinated aromatic diol and a structurally similar fluorinated diepoxide which is then reacted (copolymerized) with a polymerizable methacrylate compound (see scheme 6—columns 25-This is deemed to anticipate (B) the fluorine containing copolymer in claim 1. Stansbury et al teaches using said compositions for protective coatings and electronic devices, claims 7-9 are deemed anticipated. Per Table 1, Stansbury et al teaches adding said oligomeric fluorine (meth) acrylates (M-1, M-2, and M-3) in said compositions, wherein the examiner deems that said compositions inherently comprise at least applicant's lower limits (0.01 up to at least 10-wt%, if not at least 20-wt%) in the absence of evidence and/or arguments to the contrary.

Allowable Subject Matter

7. Claims 4-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach using the polymerizable monomer as defined in claims 4-5 for a fluorine containing copolymer used in a compositions comprising the components as seen in claim 1.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sanza L McClendon

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Examiner

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SMc

James J. Seidleck Supervisory Patent Examiner Technology Center 1779